

Program Description/Textbook or Print Instructional Material

Vendor: Pearson Education, Inc., publishing as Pearson Prentice Hall **Web Address:** www.phschool.com

Title: **JAVA Software Solutions for AP Computer Science**

Author: Lewis, Loftus, and Cocking **Copyright:** 2004

ISBN: 0-201-88259-0 **Course/Content Area:** Information Technology: Programming

Intended Grade or Level: 9-12 **Readability Level:** 7.4 Modified Dale-Chall

List Price: \$ 78.63 **Lowest Wholesale Price:** \$ 58.97

Level of Accommodations (Level One, Two, or Three) Three

If Level Two or Three, please provide rationale for not meeting Level One Compliance. Pearson Prentice Hall is unable to provide files in Levels One or Two due to the variety of page layout systems used to create the text. These systems are not compatible with specialized formats such as XML or HTML.

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

The text content identifies which material is required for the A and AB versions of the AP* test. An object-oriented approach to computer science is used with Chs. 2 and 3 introducing object concepts; Ch. 4 the design, create and define classes. Objects, introduced in Ch. 2, build on excitement on the Web. Applications allow students to gain a clear understanding of programming concepts.

Student Experiences

Using these materials gives the students the ability to understand the required information and concepts for the AP tests, A and AB versions. The object-oriented approach will allow students to begin building their knowledge early in the course and applications will allow them to gain in their programming concept formations. The text includes key boxes and code call out conventions to reinforce concepts and practices.

Assessment

Assessment is built into the materials. In addition there included in the ancillary package are a Lab Manual, SE Plus Computer Science AP Exam Review Book, and Computer Science AP Exam Review Book for additional assessment opportunities.

Organization

The text is divided into 10 chapters that build upon the concepts begun in the early chapters.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

Free upon request, 1 per teacher user with a minimum purchase of 20 JAVA Software Solutions Student Editions:

☞ Instructor's Manual

- **Available Ancillary Materials**

RESEARCH DATA/EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

The text and ancillaries have been thoroughly reviewed and tested by authorities in the field who know the requirements of the AP tests. Educators have also reviewed the text materials for ease of student use and methodology to help students learn.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool IT Programming



Title: JAVA Software Solutions for AP Computer Science		Cost: \$ 58.97
Publisher: Pearson Education/Pearson Prentice-Hall		
Item Evaluated: Textbook and Software		
Copyright Date: 2004		Evaluator: Scott Horan/David Davis
Content Level: 9-12		Date of Evaluation: 7/28/2003
This section completed by Exceptional Children Services		

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book, material or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions . They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/ Instructional Materials Review Team completed each evaluation form during the week of July 28-Aug. 1, 2003. In order to maintain the integrity of the of the review team's comments, editing was limited to spelling and punctuation.

Recommendations:
<input checked="" type="checkbox"/> Recommended by reviewers to State Textbook Commission
<input type="checkbox"/> Not recommended by reviewers to State Textbook Commission

Publisher's Explanation of Reviewer's Comments: By action of the State Textbook Commission, publishers are provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the evaluation.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool IT Programming



Title: JAVA Software Solutions for AP Computer Science		Publisher: Pearson Education/PH
Technology Management Summary Data:	20 possible points	_____7_____ points earned
Technology Management Comments:		
Technology Presentation/Interface Summary Data:	40 possible points	_____17_____ points earned
Technology Presentation/Interface Comments:		
Content Summary Data:	36 possible points	_____25_____ points earned
Content Comments:		
Instruction & Management Summary Data	52 possible points	_____43_____ points earned
Instruction & Management Comments:		
Organization & Structure Summary Data	36 possible points	_____32_____ points earned
Organization & Structure Comments:		
Resource Material Summary Data	40 possible points	_____26_____ points earned
Resource Material Comments:		



Group V - Career /Technical & Vocational/Practical Living

Electronic Instructional Media Review Form—JAVA Software Solutions for AP Computer Science—Pearson

Stand Alone/Independent or Integrated Software for IT Programming



Equipment (circle or change fill color)	Grade Level (circle or change fill color)	Audience (circle or change fill color)	Format (circle or change fill color)	Cost: Free Instructor's CD	
Windows	Primary	Individual	Stand Alone/Independent	_____single copy	_____site license
Macintosh	Intermediate	Small Group	Integrated	_____network version	_____school version
CD-ROM	Middle	Large Group	Supplemental	____lab pack of ____ copies	_____online
DVD	High		In lieu of basal test		
Sound					
Other					

If other, explain _____

Type of Software: Check all that apply	_____Simulation	_____Management	_____Interdisciplinary	_____Problem Solving	_____Tutorial
_____Exploratory	_____Creativity	_____Drill and Practice	_____Critical Thinking	_____Utility	_____Other:

Rating Scale:	3—Some of the time	1—None of the time
4—All or the time	2—Minimally	0— Not applicable

Management	Rating
Allows customizing for individual learning needs.	3
Allows students to exit and resume at a later time.	0
Keeps a students performance record, where needed.	0
Allows control of various aspects of the software (e.g., turning sound off).	0
Allows for printed reports.	4
Comments:	Total
Addison—Wesley maintains an online resource site ((instead of a CD) for instructors	7

Presentation/Interface	Rating
Presents material in an organized manner.	4
Has consistent, easy-to-use, on-screen instructions.	1
Has developmentally correct presentation format.	4
Adapts to different learning environments (learning styles/multiple intelligences, etc.)	2
Accessible for special needs students.	1
Runs smoothly, without long delays.	4
Presents easy-to-view text and graphics.	0
Presents easy-to-hear and understand sounds.	0
Avoids unnecessary screens, sounds, and graphics.	0
Provides immediate, appropriate feedback.	1
Comments:	Total
	17

Content—IT Programming	Rating
Career Focus/Employability Skills/Workplace Readiness Skills	1
Customer Needs Analysis	0
Analysis of Programming Requirements	0
Develop Programming Structure	4
Design and Develop the Program	4
Implement Program Code	4
Test Program	4
Validate Program	4
Major Types of Programs: Visual Basic, Java , C++, etc.	4
Comments:	Total 25

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Instruction and Assessment	Rating
Identifies a Sense of Purpose	4
Builds on Student Ideals	4
Engages Students	3
Develops Computer Maintenance Ideas	0
Promotes Student Thinking	4
Assesses Student Progress	3
Enhances The Learning Environment	3
Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.	4
Commonwealth Accountability Testing System (CATS) "like" Assessment is provided	4
Variety of Assessments (diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer performance, portfolio prompts) is included.	4
Includes activities and opportunities for integration of technology.	4
Reflects researched-based practices (e.g. hands-on activities, technology, problem-solving situations)	4
Differentiation techniques and activities suggested.	2
Comments:	Total 43

Rating Scale:	3 – Some potential for learning	1 - Not present
4 – High potential for learning	2 – Little potential for learning	0 – Not applicable

Organization and Structure	Rating
Organization is logical and allows for spiraling of content.	4
Vocabulary and key terms are clearly defined and easily accessible within each lesson.	4
Visual illustrations (e.g. graphs, charts, models) and examples are clearly presented and content-related.	4
Illustrations and language reflect diversity (e.g. racial, ethnic, cultural, age, gender, disabilities).	0
Legible type, length of lines, spacing, and page layout and width of margins contribute to overall appearance and use.	4
Student materials seem durable and conducive to daily use.	4
Includes sufficient glossary, index and appendices.	4
Employs accurate grammar and spelling	4
Organization of material can be effectively used with Standards Based Units, Core Content and Program of Studies.	4
Comments:	Total 32

Resource Materials	Rating
Teacher materials coordinate easily with student materials (e.g. additional resources included at point of need, student pages shown, integration of technology indicated)	3
Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.	3
Extension activities including adaptations and accommodations for students with special needs.	2
Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections with career and/technology and references (e.g. solution manuals, study guides)	2
Suggestions are made for integration of themes and /or interdisciplinary instruction.	3
Integration opportunities suggested and examples given.	3
Teacher resources are available online.	4
Online resources available – Repeat of information in text.	1
Online resources available – Practice skills only.	1
Online resources available – New application materials.	4
Comments:	Total 26

Rating Scale:	
4—All or the time	2—Minimally
3—Some of the time	1—None of the time
	0— Not applicable